## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

(Original) A three-dimensional shape measurement apparatus comprising:
a first three-dimensional sensor having a projecting device for projecting a
light pattern on a target area, and a image capturing apparatus placed at a first
interval from the projecting device to capture an image of the target area on which
the light pattern is projected;

a second three-dimensional sensor having a projecting device for projecting a light pattern on the target area, and a image capturing apparatus placed at a second interval longer than the first interval from the projecting device to capture an image of the target area on which the light pattern is projected;

three-dimensional information computing means for obtaining external shape information on an object present in the target area based on the shift of the pattern on the image acquired with the first three-dimensional sensor;

variation information computing means for obtaining variation information on the object based on the shift of the pattern on the image acquired with the second three-dimensional sensor; and

information composing means for composing the external shape information and the variation information.

- 2. (Original) The three-dimensional shape measurement apparatus as recited in claim 1, wherein the information composing means corrects the variation information based on the external shape information.
- 3. (Currently amended) The three-dimensional shape measurement apparatus as recited in claim 1 or 2, wherein the information composing means performs the composition so as to find out the movement of each point of the object.

- 4. (Currently amended) The three-dimensional shape measurement apparatus of any one as recited in claims 1 through 3, further comprising information output means for displaying the composed results of the information composing means as recited in claim 2, wherein the information composing means performs the composition so as to find out the movement of each point of the object.
- 5. (Currently amended) The three-dimensional shape measurement apparatus of any one as recited in claims 1 through 4, wherein the light pattern is an array of bright spots as recited in claim 1, further comprising information output means for displaying the composed results of the information composing means.
- 6. (Currently amended) The three-dimensional shape measurement apparatus of any one as recited in claims 1 through 5, wherein the three-dimensional information computing means performs interpolation for points that lack the external shape information as recited in claim 2, further comprising information output means for displaying the composed results of the information composing means.
- 7. (New) The three-dimensional shape measurement apparatus as recited in claim 3, further comprising information output means for displaying the composed results of the information composing means.
- 8. (New) The three-dimensional shape measurement apparatus as recited in claim 1, wherein the light pattern is an array of bright spots.
- 9. (New) The three-dimensional shape measurement apparatus as recited in claim 2, wherein the light pattern is an array of bright spots.
- 10. (New) The three-dimensional shape measurement apparatus as recited in claim 3, wherein the light pattern is an array of bright spots.

- 11. (New) The three-dimensional shape measurement apparatus as recited in claim 1, wherein the three-dimensional information computing means performs interpolation for points that lack the external shape information.
- 12. (New) The three-dimensional shape measurement apparatus as recited in claim 2, wherein the three-dimensional information computing means performs interpolation for points that lack the external shape information.
- 13. (New) The three-dimensional shape measurement apparatus as recited in claim 3, wherein the three-dimensional information computing means performs interpolation for points that lack the external shape information.